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Express Mail No. ED 678 549 984 US

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.

: 09/964,927

Confirmation No. : 2183

First Applicant

: Wil McCarthy

Art Unit

2874

Filed

26 September 2001

Examiner

: Daniel J. Petkovsek

Title

Fiber incorporating quantum dots as programmable dopants

Docket No.

027-040001US

Customer No.

: 33486

CERTIFICATE OF MAILING BY EXPRESS MAIL

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Sir:

The undersigned hereby certifies that the attached

- 1. Transmittal Form (1 page);
- 2. Applicant Initiated Interview Request Form (1 page);
- 3. Interview Summary (3 pages);
- 4. Amendment and Response (11 pages);
- 5. this Certificate of Mailing by "Express Mail' (37 CFR 1.10) (1 page); and
- 6. return postcard,

all relating to the above-referenced application were deposited with the United States Postal Service on 13 July 2005 as "Express Mail," using an Express Mail label having the number noted at the top of this page and addressed to the Mail Stop After Final, Commissioner for Patents at the above address.

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Under the Paperwork	Reduction Act of 1995, no	person		lection of inf	ormation	unless it d	displays a valid OMB control number.		
E			Application Number	09/964,927	7				
TRANSMITTAL FORM			Filing Date	26 September 2001					
			First Named Inventor	Wil McCarthy					
3 2005 🗒		Art Unit	2874						
(to backed for all correspondence after initial filing)			Examiner Name	Daniel J. Petkovsek					
(to be used for all correspondence after initial filling) MOTION Number of Pages in This Submission			Attorney Docket Number	027-040001US					
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ENCLOSURES (Check all that apply) After Allowance Communication to TC									
Extension of Tir	ply all s/declaration(s)		Drawing(s) Licensing-related Papers Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence A Ferminal Disclaimer Request for Refund			of Appea Appea (Appea Proprie Status	Enclosure(s) (please Identify		
Document(s) Reply to Missing Parts/ Incomplete Application 1. /		CD, Number of CD(s) Landscape Table on CD Remarks Applicant Initiated Interview Request Form; Interview Summary (3 pages); Certificate of mailing by Express Mail; Postcard							
	SIGNATU	JRE C	OF APPLICANT, ATTO	RNEY, C	R AG	ENT	<u></u>		
Firm Name Heip	macher & Assoc., LLC	20							
Printed name Brad	J. Hattenbach								
Data	uly 2005		F	Reg. No.	42,642	!			
I hereby certify that this sufficient postage as first the date shown below:	correspondence is bein	ng facsi	CATE OF TRANSMISS mile transmitted to the USPT dressed to: Commissioner for	O or depos	sited with	the Un 1450, /	ited States Postal Service with Nexandria, VA 22313-1450 on		
Typed or printed name						Date			

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Express Mail Label No.: ED 678 549 984 US ttorney Docket No.: 027-040001US

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Applicant Initiated Interview Request Form

·		 									
Application No.: 09/964,927		First Named Applicant	McCarthy, Wil								
Examiner: Daniel Petkovsek		Art Unit: 2874	Status of App	ng - Under Final							
Tentative Participan (1) Brad J. Hattenbac		(2) Daniel Petkovsek									
(3) John D. Lee		(4)									
Proposed Date of Int	Proposed Time: 11:00 a.m. (AM/PM) EDT										
Type of Interview Requested: (1) [x] Telephonic (2) [] Personal (3) [] Video Conference											
Exhibit To Be Shown If yes, provide brief	[x] NO										
Issues To Be Discussed											
Issues	Claims/		Discussed	Agreed	Not Agreed						
(Rej., Obj., etc)	Fig. #s	Prior									
(1) Rejections	All Pending	Art Yerushalmi et al.	[x]	[]	[]						
(2)			[]	[]	[]						
(3)			[]	[]	[]						
(4) [] Continuation Shee	et Attached		[]	[]	[]						
Brief Description of Arguments to be Presented: Yerushalmi et al. is not an effective prior art reference because the subject matter relied upon in Yerushalmi											
et al. for the rejection is not entitled to the necessary priority date.											
An interview was conducted on the above-identified application on 22 June 2005 NOTE: This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP § 713.01).											
This application will not be delayed from issue because of applicant's failure to submit a written record of this											
interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible.											
Crack Hallenbac											
Applicant/Applicant's Representative Signature Examiner/SPE Signature											
Brad J. Hattenbach											
Typed/Printed Name of Applicant or Representative											
42,642											
Registration Number, if applicable											

This collection of information is required by 37 CFR 1.133. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 09/964,927

Confirmation No. : 2183

Applicants

McCARTHY, Wil

Art Unit : 2874

SNYDER, Gary E.

Filed

: 26 SEPTEMBER 2001

Examiner

: Daniel J. Petkovsek

Title

: Fiber incorporating quantum dots as programmable dopants

Docket No.

: 027-040001US

Customer No.

33486

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INTERVIEW SUMMARY

Pursuant to 37 C.F.R. § 1.133(b), the following is a summary of an interview between the undersigned attorney for Applicants and examiners Daniel J. Petkovsek and SPE John D. Lee that occurred on 22 June 2005. An Applicant Initiated Interview Request Form is enclosed herewith as the interview request was scheduled by telephone.

The interview was conducted with regard to the final Office action dated 8 June 2005 in U.S. Patent application no. 09/964,927.

The Office's prima facie burden for presenting an anticipation rejection was initially discussed, specifically in the context of reaching back to a priority document to support an earlier effective date than the filing date or publication date of the reference asserted. The examiners stated their understanding that in order to support a rejection, the subject matter meeting limitations of the claims must be found in the priority document as well as in the cited reference.

Attorney for Applicants noted that the rejections as stated in the first Office action after withdrawal based on U.S. application publication no. 2003/0107927 to Yerushalmi et al. (the '927 publication) were not entitled to the priority date of a counterpart provisional application filing, U.S. provisional application no. 60/274,635. Attorney for Applicants' noted that the rejections are based on subject matter in the '927 publication that is not found in the '635 application.

Appl. No.: 09/964,927 Express Mail Label No.: ED 678 549 984 US

Interview Summary Dated: 13 July 2005 Attorney Docket No.: 027-040001US

There was a discussion about whether Applicants' obligation to "fully respond" to the Office action included responding to each "substantive" ground for rejection of each claim. Attorney for Applicants asserted that there was no such obligation when a prima facie case had not been presented and the reference was not entitled to an earlier effective date for the subject matter cited.

The discussion next concerned the proper definition of a "quantum dot." Attorney for Applicants questioned the source of the definition as there was no attribution for the definition in the final Office action. The examiners stated that their definition of a quantum dot was taken from U.S. Patent No. 5,530, 263, which was not cited and is not a reference of record in the prosecution of this application. The examiners' definition omitted the most significant attribute of a quantum dot, namely that the structure must confine one or more electrons in three dimensions within a potential barrier.

The examiners suggested that a quantum dot could be a single atom with alterations to its valence shells. Attorney for Applicants corrected this misunderstanding by explaining that a quantum dot is not an atom at all, and while it confines a collection of electrons or other charge carriers, there is no nucleus to a quantum dot.. Because of the small size of the confinement area, the electrons organize themselves as if they were valence shells similar to surrounding the nucleus of an atom. However, there are no protons about which the electrons revolve.

The claims were next discussed in view of the '635 application. Attorney for Applicants asserted out that none of the elements of the rejected claims could be found in the '635 application. Attorney for Applicants identified a list of terms used in the claims of the present application, most significantly "quantum dot," that cannot be found in the '635 application. Attorney for Applicants also discussed how the "molecular engine" discussed in the '927 publication, and equated to Applicants' invention in the Office action, was an entirely different structure.

The interview concluded and SPE Lee he felt that the examiners had a better understanding of the subject matter of the invention. SPE Lee further stated that he would assure that Applicants' written response to the final Office would be allocated a thorough and substantive review.

Appl. No.: 09/964,927 Express Mail Label No.: ED 678 549 984 US

Interview Summary Dated: 13 July 2005 Attorney Docket No.: 027-040001US

Respectfully submitted this day of July 2005.

Brad J. Hattenbach, Esq. Registration No. 42,642 Customer No. 33486

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cc: Client Docketing